Fifty middle school students were surveyed and asked, "What sports do you participate in?" 22 said they played basketball, 15 said they played football, 31 said they played soccer. 16 students played basketball and soccer (and some of these may have also played football), 5 played football and basketball (some of these may have also played soccer), and 8 played football and soccer (some of these may have also played basketball). Exactly 5 students played all three sports. How many students surveyed did not play any of these sports?